

## **Abstract**

The invention relates to an apparatus for determining and/or monitoring at least 5 one physical or chemical, process variable of a medium and includes at least one mechanically oscillatable unit (1) and at least one driving/receiving unit (8). The mechanically oscillatable unit includes a tube (2) and an internal oscillator (3). The tube is connected to a securement unit (5) with an end (4) turned away from the process and the end (6) of the tube (2) turned toward the process is 10 embodied as a free end. The tube (2) surrounds the internal oscillator (3) and the internal oscillator (3) is secured to the end (6) of the tube (2) turned toward the process with an end (7) turned toward the process. The driving/receiving unit (8) excites the mechanically oscillatable unit (1) to oscillate, respectively it receives the oscillations of the mechanically oscillatable unit (1). The invention 15 includes that the internal oscillator (3) has at least one groove/neck (9), which determines at least the oscillation frequency of the mechanically oscillatable unit (1).

(Fig. 3)

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